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**REMARKS****STATUS OF THE CLAIMS**

According to the foregoing, claims 1, 2, 5, 9, 10, 13, 14, 17, 19 and 20 are amended and claim 21 is cancelled; thus, the pending claims 1-20 remain for reconsideration, which is respectfully requested.

No new matter has been added and accordingly, entry and approval of the replacement drawing, amended specification and amended claims 1-10 and 13-14 is respectfully requested.

**STATUS OF THE CLAIMS:**

Claims 1-20 are pending.

Claims 1-20 are rejected.

**ENTRY OF RESPONSE UNDER 37 C.F.R. §1.116:**

Applicants request entry of this Rule 116 Response and Request for Reconsideration because:

(a) the amendments of the claims should not entail any further search by the Examiner because the amendments clarify the patentably distinguishing features of the claimed invention without raising new issues, and finality of issues with the Examiner has not been reached, since an anticipation rejection cannot be established over Shiomi, thus warranting entry of clarifying claim amendments and consideration of the remarks and withdrawal of the rejection of claims and/or withdrawal of the finality of the Office Action; and/or

(b) the amendments do not significantly alter the scope of the claims and place the application at least into a better form for appeal and/or simplify issues for appeal. It is believed that no new features or new issues appear to be raised.

The amendments and remarks are respectfully submitted. Entry of this reply and reconsideration of the claims is respectfully requested, because the amendments and remarks clarify the patentably distinguishing features recited by the language of the claims, because the remarks apply the discussions of Shiomi specifically to the language of the claims, and because in view of the amendments and remarks it is believed the claims are allowable over Shiomi.

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**REJECTION OF CLAIMS 1-20 UNDER 35 U.S.C. 112, SECOND PARAGRAPH, FOR INDEFINITENESS**

The Office Action, at page 2, asserts "it is not clear what the term 'which are a common type' is referring to."

In accordance with the foregoing, the claims are amended, responsive to the objections and helpful suggestions of the Examiner, and it is respectfully submitted that the rejection of claims 1-20 is overcome, and accordingly, should be withdrawn.

**ITEMS 1-12: REJECTION OF CLAIMS 1-3, 7-11, 15-17 and 19-20 UNDER 35 U.S.C. 102(e) AS BEING ANTICIPATED BY SHIOMI ET AL. (USP 7,024,668), HEREINAFTER REFERRED TO AS "SHIOMI."**

Independent claims 1, 9 and 17 are allegedly anticipated by Shiomi.

The Office Action, in Response to Arguments, at page 10, asserts "in response to applicant's argument that the references fail to show certain features of applicants invention, it is noted that the features upon which applicant relies ... are not recited in the rejected claims."

In accordance with the foregoing, claim 1 is amended, taking into consideration the Examiner's comments, to recite, in part, "a plurality of I/O units **performing a financial transaction operation**; and a control unit controlling one of said plurality of I/O units according to **first common transaction control signals** from said host, and wherein said control unit comprises: a middleware layer operating according to control of a kernel and controlling one of said plurality of I/O units, a parameter file storing parameters to convert **said first common transaction control signals, which are common to each apparatus connected to said host** and specified by an interface with said host, into second transaction control signals specific to said middleware layer." Applicants respectfully submit that Shiomi fails to disclose, either expressly or inherently, the same.

Shiomi discloses a computer system having a hardware unit 35 (CPU, memory, keyboard and display), an OS unit 34 including a kernel 34a and a library unit 34b, Java Middleware unit 33 and application units 11 and 12 (see column 14, lines 12-20 and fig. 15). A VM (virtual machine) unit 33a in the Java Middleware unit 33 analyzes application 12 from a host, selects a java library and controls the hardware 35. Shiomi at column 7, lines 22-32 recites:

More specifically, when an application requests provision of a resource, a library unit provides the resource to the application, acquires an application ID for identifying the application that has requested the resource, and *stores the name of the provided*

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*resource and the application ID together in a table. When the application is completed, the library unit receives the application ID of the completed application, searches the table for the resource name corresponding to the received application ID, and collects the resource specified by the resource name.*

(emphasis added).

That is, the VM unit 33a interprets an application ID to designate a class of the library, calls a class library 33c and the designated library executes the class to control the hardware 9(see Shiomi at column 14, line 55 to column 15, lines 31).

The Office Action, at page 4, lines 9-10 equates a bytecode of Shiomi to the claimed "first transaction control signals" and binary code to the claimed "second transaction control signals." Applicants respectfully disagree with the equation because Shiomi, at column 14, lines 25-29 recites:

The VM unit 33a executes an application. Which is to say, the VM unit 33a sequentially **interprets the application written in bytecode into binary codes** which can be executed by a CPU 35a in the hardware unit 35, and has the CPU 35a execute the binary codes.

In other words, Shiomi discloses that an application written in bytecode is converted into binary code. That is, Shiomi discloses that a computer converts a program written in a first language (bytecode) into machine code (binary code). All computers must convert a program into machine code in order for a computer to be able to understand the instructions – that is, computers only understand binary code (1's and 0's), thus any program written in any programming language is converted into binary code in order for the computer to execute the program. Accordingly, Applicants respectfully submit that the "bytecode" and "binary code" of Shiomi cannot correspond to the claimed "first common transaction control signals" and "second transaction control signals."

Furthermore, Shiomi, at column 14, lines 30-39 recites:

The VM unit 33a also reserves resources necessary for its own operation and for the execution of the application.

To be more specific, the **VM unit 33a calls class library units** in the class library storing unit 33c, and reserves resources necessary for its own operation via the class library units. Also, when the application which is being executed requests provision of a resource, the VM unit 33a calls a class in a corresponding class library unit in the class library storing unit 33c, and reserves the resource requested by the application via the class library unit.

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In other words, Shiomi discloses that a Java program uses class libraries in order to execute a program.

The Examiner broadly interprets an "automatic transaction apparatus" and a "transaction signal," asserting that Shiomi, at column 7, lines 39-44, and element 11 of Fig. 15 discusses the same. Applicants respectfully disagree with the Examiner's assertion, because Shiomi, at column 7, lines 39-44 merely discusses:

The application inputting unit 11 is made up of a floppy disk drive, a CD drive, a network interface board, a broadcast receiver, or the like. The application inputting unit 11 receives applications to be executed, and stores the applications into the application storing unit 12.

The application storing unit 12 is made up of an RAM, an ROM, a hard disk, a CD ROM drive, a floppy disk, or the like. The application storing unit 12 stores the applications outputted from the application inputting unit 11, or applications retained beforehand.

In other words, element 11 of Figure 15 of Shiomi merely discusses a computer system and a control signal.

However, claim 1 is further amended to recite, in part, "wherein said middleware layer specific to said apparatus controls said I/O units performing a financial transaction operation designated by said first common transaction control signals, according to said second transaction control signals." In other words, claim 1 is amended to clarify that, in one embodiment, an automatic transaction apparatus performs a financial transaction and the first common transaction signals and the second transaction control signals indicate financial transaction control signals. Applicants respectfully submit that Shiomi fails to disclose, either expressly or inherently, the same, because Shiomi merely discusses a computer system and control signal, and, thus, fails to disclose performing any financial transactions.

Accordingly, Applicants respectfully submit that an anticipation rejection cannot be based upon Shiomi, because Shiomi fails to disclose each and every feature of the claimed embodiment, including the claimed "a parameter file storing parameters to convert said first common transaction control signals, which are common to each apparatus connected to said host and specified by an interface with said host, into second transaction control signals specific to said middleware layer ... wherein said middleware layer specific to said apparatus controls said I/O units performing a financial transaction operation designated by said first common transaction control signals, according to said second transaction control signals," as recited, for

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example, in claim 1, because Shiomi merely discusses converting a program into machine code such that a computer may operate on the instructions of the program.

Applicants respectfully submit the independent claims 9 and 17 patentably distinguish over the cited reference for similar reasons.

Dependent claims are patentably distinguishing at least due to their dependence from the independent claims and/or for reciting patentably distinguishing features of their own. Withdrawal of the rejection of the pending claims and allowance of the pending claims is respectfully requested.

**ITEMS 13-16: REJECTION OF CLAIMS 4, 5, 12 AND 13 UNDER 35 U.S.C 103(a) AS BEING UNPATENTABLE OVER SHIOMI, IN VIEW OF EVANS ET AL. (U.S. PATENT PUBLICATION NO. 2004/0131082), HEREINAFTER REFERRED TO AS "EVENS."**

Dependent claims are patentably distinguishing at least due to their dependence from the independent claims and/or for reciting patentably distinguishing features of their own. Withdrawal of the rejection of the pending claims and allowance of the pending claims is respectfully requested.

**ITEMS 17-18: REJECTION OF CLAIMS 6 AND 14 UNDER 35 U.S.C. 103(a) AS BEING UNPATENTABLE OVER SHIOMI IN VIEW OF APPLICANT'S ADMITTED PRIOR ART (HEREINAFTER AAPA)**

The AAPA merely discusses a Web ATM having a browser to communicate with a remote host. Accordingly, Applicants respectfully submit the AAPA fails to disclose or suggest the claimed "wherein said control unit further comprises a browser communicating with said host on the Web and exchanging said first control signals specified by the interface between said I/O control layer and said host," as recited in claim 6, and the claimed "wherein said receiving step comprises communicating with said host on the Web and exchanging said first transaction control signals specified by the interface with said host," as recited in claim 14.

Accordingly, Applicants respectfully submit that a *prima facie* case of obviousness cannot be based upon Shiomi and the AAPA, because there is no evidence that one skilled in the art would modify Shiomi, the AAPA or a combination of Shiomi and the AAPA to include the claimed "wherein said control unit further comprises a browser communicating with said host on the Web and exchanging said first control signals specified by the interface between said I/O control layer and said host," because the AAPA merely discusses a Web ATM having a browser to communicate with a remote host.

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Accordingly, Applicants respectfully submit that the dependent claims recite patentably distinguishing features of their own or are at least patentably distinguishing due to their dependence from the independent claims. Withdrawal of the rejection of pending claims, and allowance of pending claims is respectfully requested.

**CONCLUSION**

In view of the above, it is respectfully submitted that the application is in condition for allowance, and a Notice of Allowance is earnestly solicited.

If there are any additional fees associated with filing of this Amendment, please charge the same to our Deposit Account No. 19-3935.

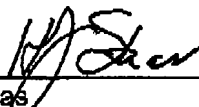
Respectfully submitted,

STAAS & HALSEY LLP

Date:

Aug. 29. 2007

By:



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